

$$0.0007129 = \underline{7.129E-4}$$

$$172840000 = \underline{1.7284E8}$$

$$6.473E9 = \underline{6473000000}$$

$$4.998 \times 10^{-6} = \underline{0.000004998}$$

$$1471 \text{ kg} = \underline{1471000} \text{ g}$$

$$27365 \text{ ms} = \underline{0.27365} \text{ hs}$$

$$997 \text{ daL} = \underline{997000} \text{ cL}$$

$$735.48 \text{ ds} = \underline{7.3548} \text{ das}$$

Analyzing a Study:

4. a) Independent Variable:

ultraviolet radiation

(not the covers; they just change the amount of radiation)

Qualitative (could be quantitative, but not in this case)

Dependent Variable:

Tadpoles still alive

Quantitative → unit is number of tadpoles

b. No, we reject the hypothesis.

The amount of tadpoles that remained alive is the same between trials.

c) Control: Group 1

Experimental: Group 2

d) The difference is the amount of ultraviolet radiation.

Potential for Errors:

- Time outside
- Amount of food
- Age of tadpoles
- Amount of water